



Product Overview

STK681-332-E: Motor Driver, DC, Forward / Reverse, with Brush

For complete documentation, see the data sheet

Product Description

STK681-332-E is a hybrid IC for use in current control forward/reverse DC motor driver for brush motors. It allows forward, reverse, and brake operations in accordance with the external input signal. The peak startup output current is 8.5A and the peak brake output current is 12A. Connecting an external current detection resistor allows over-current detection and peak current control in the PWM operation mode. And STK681-332-E has various protective functions built-in. They include function against over-current, overheating and short to ground and short to supply. And it obviates the need to design for the dead time in order to turn off the upper and lower drive devices when switching between the forward and reverse operation mode.

Features

- PWM operation
- Built-in protective functions
- No need for dead time design

Benefits

- Allows peak current control
- Include function against over-current, overheating and short to ground and short to supply.
- Easy to safety design

Applications

- Computing & Peripherals
- Industrial

End Products

- Multi-Function Printer
- Slot machine
- Vending Machine

Part Electrical Specifications

| Product | Compliance | Status | Type | V _M Min (V) | V _M Max (V) | V _{CC} Min (V) | V _{CC} Max (V) | I _O Max (A) | I _O Peak Max (A) | Step Reso- lution | Cont rol Type | Feed back Meth- od | Curr- ent Sense | Reg- ulator Out- put | Fault Dete- ction | Fly- back Protec- tion | R _{DS(on)} Typ (Ω) | Pack- age Type |
|--------------|------------|--------|----------|------------------------------|------------------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------------|-------------------------|---------------------|-----------------------------|-----------------------|-------------------------------|-------------------------------------|---------------------------------|--|----------------------|
| STK681-332-E | Pb-free | Active | Brush DC | - | 52 | 4.75 | 5.25 | 8.5 | 12 | | PWM Parallel | None | External Resistor | No | Over- Current Thermal UVLO | | | SIP-19 |

For more information please contact your local sales support at www.onsemi.com

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